

CLAIMS

What is claimed is:

1. An electronic apparatus comprising:
an electronic device including a body; and
a battery coupled to the body to supply current to said electronic device,
wherein said battery includes a memory unit having a built-in main memory and a detachable auxiliary memory.
2. The electronic apparatus of claim 1, wherein said battery further comprises a primary power connection to connect to said electronic device, and a secondary power output port to connect to another device to supply current thereto.
3. The electronic apparatus of claim 1, wherein said battery further comprises a primary communication connection to connect to said electronic device, and a communication port to connect the memory unit to another device to exchange information with the another device.
4. The electronic apparatus of claim 3, wherein the secondary communication port is installed to slide so that a free end of the secondary communication port protrudes from said battery to connect to the another device.
5. The electronic apparatus of claim 3, wherein the secondary communication port is disposed to be flipped out from a body of said battery at a predetermined angle.
6. The electronic apparatus of claim 1, wherein the main memory is detachable from the memory unit.
7. The electronic apparatus of claim 1, wherein the main memory is one of a memory chip and a memory card, and the auxiliary memory is the other of the memory chip and the memory card.
- ~~8.~~ A battery for an electronic device, comprising:

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a battery unit to store power; and
a memory unit connected to said battery unit, said memory unit comprising
a built-in main memory, and
an auxiliary memory that is detachable from said battery unit,
wherein the battery is detachable from the electronic device.

9. The battery of claim 8, further comprising a primary power connection to connect to the electronic device and a secondary power output port to connect to another device to supply current thereto.

10. The battery of claim 8, further comprising a primary communication connection to exchange information with the electronic device, and a secondary communication port to connect said memory unit to another device to exchange information with the another device.

11. The battery of claim 10, wherein said secondary communication port is installed to slide so that a free end of said secondary communication port protrudes from the battery to connect to the another device.

12. The battery of claim 10, wherein said secondary communication port is disposed to be flipped out from a body of the battery at a predetermined angle.

13. The battery of claim 8, wherein the main memory is detachable from said memory unit.

14. The battery of claim 8, wherein the main memory is one of a memory chip and a memory card, and the auxiliary memory is the other of the memory chip and the memory card.

~~15.~~ An electronic apparatus comprising:
an electronic device; and
a battery coupled to said electronic device, said battery comprising
an energy storage unit to power said electronic device, and
a memory comprising memory units accessible by said electronic device.

16. The electronic apparatus of claim 15, wherein one of the memory units is detachable from said battery.

17. The electronic apparatus of claim 15, wherein one of the memory units is detachable from the memory.

18. The electronic apparatus of claim 16, wherein said electronic device is one of a portable phone, a personal digital assistant, and a computer.

19. The electronic apparatus of claim 16, wherein said battery includes a communication port through which another electronic device accesses the memory.

20. The electronic apparatus of claim 16, wherein said battery includes a connector through which another electronic device is powered by said battery.

21. The electronic apparatus of claim 19, wherein said battery includes a connector through which another electronic device is powered by said battery, wherein said battery is attached to said electronic device when the another electronic device is connected to one of the connector and the communication port.

22. A battery for use with an electronic device and/or electronic devices, comprising:
an energy storage unit to power the electronic device; and
a memory connected to said energy storage unit and comprising memory units accessible by the electronic device.

23. The battery of claim 22, wherein one of the memory units is detachable from the battery.

24. The battery of claim 22, wherein one of the memory units is detachable from said memory.

25. The battery of claim 24, further comprising communication ports through which the electronic devices are detachably connected to accesses said memory.

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26. The battery of claim 24, further comprising connectors through which the electronic devices are detachably connected to be powered by said energy storage unit.

27. The battery of claim 25, further comprising connectors through which the electronic devices are detachably connected to be powered by said energy storage unit, wherein the battery is simultaneously attachable to multiple electronic devices.

28. The battery of claim 27, further comprising a printed circuit board to connect said memory to said communication ports.

29. The battery of claim 27, wherein the one memory unit comprises a recordable medium housed in a case.

30. The battery of claim 27, wherein the one memory unit comprises a memory card, and another one of the memory units comprises a memory chip.

31. A method of storing information and power for use with an electronic apparatus, comprising:
 connecting the electronic apparatus to a battery comprising a battery unit to store energy and memory units to store information to be accessed by the electronic apparatus; and
 forming a communication pathway to transfer information between the electronic device and one of the memory units.

32. The method of claim 31, forming an energy pathway to supply the energy stored in the battery unit to the electronic apparatus while the communication pathway is formed.

33. The method of claim 31, further comprising;
 connecting another electronic apparatus to the battery; and
 forming another communication pathway between the another electronic apparatus and the one memory unit to transfer information between the one memory unit and the another electronic apparatus.

34. The method of claim 33, wherein both the electronic apparatus and the another electronic apparatus are connected to the battery at the same time.

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35. The method of claim 33, wherein both the electronic apparatus and the another electronic apparatus are not connected to the battery at the same time.

36. The method of claim 35, further comprising detaching the battery from the electronic apparatus prior to said connecting the another electronic apparatus to the battery.

37. The method of claim 36, wherein the electronic apparatus and the another electronic apparatus are of the same kind.

38. The method of claim 31, further comprising:
detaching the battery from the electronic apparatus; and
connecting the electronic apparatus to another battery.

39. The method of claim 38, wherein the another battery includes another memory unit.

40. The method of claim 38, wherein the another battery does not include another memory unit.

41. The method of claim 31, further comprising forming another communication pathway such that a detachable one of the memory units is accessible by the electronic apparatus.

42. The method of claim 41, further comprising attaching the detachable memory unit to the battery prior to said forming the another communication pathway.

43. The method of claim 42, further comprising detaching the detachable memory unit from another electronic apparatus prior to said attaching the detachable memory unit to the battery.